

# THE ASTROPHYSICAL JOURNAL SUPPLEMENT

## AUTHOR INDEX

VOLUME 130

2000 SEPTEMBER TO OCTOBER

- ABRAMOWICZ, MAREK A. Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz*. 130, 463 (2000)
- ALLAM, SAHAR S. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- BAUM, STEFI A. Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum*. 130, 267 (2000)
- BECHTOLD, JILL. A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . I. The Sample and Distribution of Clouds at  $z > 1.7$ . *Jennifer Scott, Jill Bechtold, & Adam Dobrzycki*. 130, 37 (2000)
- A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni*. 130, 67 (2000)
- CARPENTER, JOHN M. Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell*. 130, 381 (2000)
- CHARLTON, JANE C. Low- and High-Ionization Absorption Properties of Mgl Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- CHURCHILL, CHRISTOPHER W. Low- and High-Ionization Absorption Properties of Mgl Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- CROCKER, ROLAND M. Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas*. 130, 339 (2000)
- DE BUIZER, JAMES M. Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco*. 130, 437 (2000)
- DEGUCHI, SHUJI. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- DOBRYZCKI, ADAM. A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . I. The Sample and Distribution of Clouds at  $z > 1.7$ . *Jennifer Scott, Jill Bechtold, & Adam Dobrzycki*. 130, 37 (2000)
- A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni*. 130, 67 (2000)
- FEKEL, FRANCIS C. Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall*. 130, 201 (2000)
- FUJII, TAKAHIRO. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- GOPALSWAMY, N. Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy*. 130, 485 (2000)
- GUPTA, G. P. Fine-Structure Calculation of Energy Levels, Oscillator Strengths, and Lifetimes in Al-like Sulfur. *G. P. Gupta & A. Z. Msezane*. 130, 227 (2000)
- HALL, DOUGLAS S. Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall*. 130, 201 (2000)
- HASHIMOTO, YASUHIRO. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- HENRY, GREGORY W. Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall*. 130, 201 (2000)
- HENRY, STEPHEN M. Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall*. 130, 201 (2000)
- HEYER, MARK H. Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell*. 130, 381 (2000)
- IGUMENSHCHEV, IGOR V. Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz*. 130, 463 (2000)
- IZUMIURA, HIDEYUKI. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- JANNUZI, BUELL T. Low- and High-Ionization Absorption Properties of Mgl Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- KAMEYA, OSAMU. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- KIRHAKOS, SOFIA. Low- and High-Ionization Absorption Properties of Mgl Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- KIRSHNER, ROBERT P. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- KULKARNI, VARSHA P. A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni*. 130, 67 (2000)
- KUNDU, M. R. Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy*. 130, 485 (2000)
- LANDY, STEPHEN D. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- LIN, HUAN. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- MALKAN, MATTHEW. Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan*. 130, 165 (2000)
- MARTEL, ANDRÉ R. Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum*. 130, 267 (2000)
- MELIA, FULVIO. Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas*. 130, 339 (2000)
- MELLON, RICHARD R. Low- and High-Ionization Absorption Properties of Mgl Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C.*

- Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider. 130, 91 (2000)
- MORTON, DONALD C. Atomic Data for Resonance Absorption Lines. II. Wavelengths Longward of the Lyman Limit for Heavy Elements. *Donald C. Morton*. 130, 403 (2000)
- MSEZANE, A. Z. Fine-Structure Calculation of Energy Levels, Oscillator Strengths, and Lifetimes in Al-like Sulfur. *G. P. Gupta & A. Z. Msezane*. 130, 227 (2000)
- NAKADA, YOSHIKAZU. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- NAKASHIMA, JUN-ICHI. SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima*. 130, 351 (2000)
- NINDOS, A. Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy*. 130, 485 (2000)
- OEMLER, AUGUSTUS, JR. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- PENTON, STEVEN V. The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull*. 130, 121 (2000)
- PINA, ROBERT K. Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco*. 130, 437 (2000)
- RAO, SANDHYA M. Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek*. 130, 1 (2000)
- ROSENBERG, JESSICA L. The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider*. 130, 177 (2000)
- SCHECHESTER, PAUL L. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- SCHNEIDER, DONALD P. Low- and High-Ionization Absorption Properties of Mgr Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- SCHNEIDER, STEPHEN E. The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider*. 130, 177 (2000)
- SCOTT, JENNIFER. A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . I. The Sample and Distribution of Clouds at  $z > 1.7$ . *Jennifer Scott, Jill Bechtold, & Adam Dobrzycki*. 130, 37 (2000)
- A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni*. 130, 67 (2000)
- SHECTMAN, STEPHEN A. See TUCKER, DOUGLAS L., et al. Loose Groups of Galaxies in the Las Campanas Redshift Survey.
- SHIBASAKI, K. Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy*. 130, 485 (2000)
- SHULL, J. MICHAEL. The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull*. 130, 121 (2000)
- SNELL, RONALD L. Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell*. 130, 381 (2000)
- SPARKS, WILLIAM B. Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum*. 130, 267 (2000)
- STEIDEL, CHARLES C. Low- and High-Ionization Absorption Properties of Mgr Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider*. 130, 91 (2000)
- STOCKE, JOHN T. The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull*. 130, 121 (2000)
- TELESCO, CHARLES M. Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco*. 130, 437 (2000)
- TUCKER, DOUGLAS L. Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam*. 130, 237 (2000)
- TURNER, NEAL J. Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum*. 130, 267 (2000)
- TURNESHEK, DAVID A. Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek*. 130, 1 (2000)
- VOLKAS, RAYMOND R. Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas*. 130, 339 (2000)
- WEBB, WAYNE. Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan*. 130, 165 (2000)
- WHITE, S. M. Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy*. 130, 485 (2000)

# SUBJECT INDEX

VOLUME 130

2000 SEPTEMBER TO OCTOBER

## ACCELERATION OF PARTICLES

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

## ACCRETION, ACCRETION DISKS

Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz.* 130, 463 (2000)

## ATOMIC DATA

Fine-Structure Calculation of Energy Levels, Oscillator Strengths, and Lifetimes in Al-like Sulfur. *G. P. Gupta & A. Z. Msezane.* 130, 227 (2000)

Atomic Data for Resonance Absorption Lines. II. Wavelengths Longward of the Lyman Limit for Heavy Elements. *Donald C. Morton.* 130, 403 (2000)

## CATALOGS

Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam.* 130, 237 (2000)

## CONDUCTION

Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz.* 130, 463 (2000)

## CONVECTION

Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz.* 130, 463 (2000)

## COSMOLOGY: DIFFUSE RADIATION

A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni.* 130, 67 (2000)

## COSMOLOGY: LARGE-SCALE STRUCTURE OF THE UNIVERSE

Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam.* 130, 237 (2000)

## COSMOLOGY: OBSERVATIONS

Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek.* 130, 1 (2000)

## ELEMENTARY PARTICLES

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

## GALAXIES: ACTIVE

Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan.* 130, 165 (2000)

## GALAXIES: CLUSTERS: GENERAL

Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam.* 130, 237 (2000)

## GALAXIES: DISTANCES AND REDSHIFTS

Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam.* 130, 237 (2000)

## GALAXIES: ELLIPTICAL AND LENTICULAR, CD

Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum.* 130, 267 (2000)

## GALAXIES: EVOLUTION

Low- and High-Ionization Absorption Properties of MgII Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W.*

*Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider.* 130, 91 (2000)

## GALAXIES: FORMATION

Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek.* 130, 1 (2000)

## GALAXIES: FUNDAMENTAL PARAMETERS

The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider.* 130, 177 (2000)

## GALAXIES: HALOS

Low- and High-Ionization Absorption Properties of MgII Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider.* 130, 91 (2000)

The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull.* 130, 121 (2000)

## GALAXIES: INTERGALACTIC MEDIUM

A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni.* 130, 67 (2000)

The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull.* 130, 121 (2000)

## GALAXIES: ISM

The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider.* 130, 177 (2000)

Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum.* 130, 267 (2000)

## GALAXIES: NUCLEI

Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum.* 130, 267 (2000)

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

## GALAXIES: PHOTOMETRY

Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan.* 130, 165 (2000)

## GALAXIES: QUASARS: ABSORPTION LINES

Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek.* 130, 1 (2000)

A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . I. The Sample and Distribution of Clouds at  $z > 1.7$ . *Jennifer Scott, Jill Bechtold, & Adam Dobrzycki.* 130, 37 (2000)

A Uniform Analysis of the Ly $\alpha$  Forest at  $z = 0-5$ . II. Measuring the Mean Intensity of the Extragalactic Ionizing Background Using the Proximity Effect. *Jennifer Scott, Jill Bechtold, Adam Dobrzycki, & Varsha P. Kulkarni.* 130, 67 (2000)

Low- and High-Ionization Absorption Properties of MgII Absorption-selected Galaxies at Intermediate Redshifts. I. General Properties. *Christopher W. Churchill, Richard R. Mellon, Jane C. Charlton, Buell T. Jannuzi, Sofia Kirhakos, Charles C. Steidel, & Donald P. Schneider.* 130, 91 (2000)

The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull.* 130, 121 (2000)

## GALAXIES: QUASARS: GENERAL

Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan.* 130, 165 (2000)

**GALAXIES: SEYFERT**

Comparison Star Sequences for Optical Photometry of Active Galactic Nuclei and Quasars. *Wayne Webb & Matthew Malkan.* 130, 165 (2000)

**GALAXIES: STRUCTURE**

Nuclear Gas and Dust Disks in Nearby 3CR Elliptical Galaxies. *André R. Martel, Neal J. Turner, William B. Sparks, & Stefi A. Baum.* 130, 267 (2000)

**GALAXY: CENTER**

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

**GALAXY: KINEMATICS AND DYNAMICS**

SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima.* 130, 351 (2000)

**HYDRODYNAMICS**

Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz.* 130, 463 (2000)

**INFRARED: STARS**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco.* 130, 437 (2000)

**ISM: ABUNDANCES**

Atomic Data for Resonance Absorption Lines. II. Wavelengths Longward of the Lyman Limit for Heavy Elements. *Donald C. Morton.* 130, 403 (2000)

**ISM: COSMIC RAYS**

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

**ISM: INDIVIDUAL****Alphanumeric: W3**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

**Alphanumeric: W4**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

**Alphanumeric: W5**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

**MASERS**

SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima.* 130, 351 (2000)

Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco.* 130, 437 (2000)

**RADIATION MECHANISMS: NONTHERMAL**

Oscillating Neutrinos from the Galactic Center. *Roland M. Crocker, Fulvio Melia, & Raymond R. Volkas.* 130, 339 (2000)

**RADIO LINES: GALAXIES**

The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider.* 130, 177 (2000)

**RADIO LINES: STARS**

SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima.* 130, 351 (2000)

**STARS: ATMOSPHERES**

Atomic Data for Resonance Absorption Lines. II. Wavelengths Longward of the Lyman Limit for Heavy Elements. *Donald C. Morton.* 130, 403 (2000)

**STARS: CIRCUMSTELLAR MATTER**

SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro*

*Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima.* 130, 351 (2000)

Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco.* 130, 437 (2000)

**STARS: FORMATION**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco.* 130, 437 (2000)

**STARS: FUNDAMENTAL PARAMETERS**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

**STARS: LATE-TYPE**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

SiO Maser Survey of the Galactic Disk IRAS Sources. III.  $-10^\circ < l < 15^\circ$  and  $|b| \leq 3^\circ$ , A Central Part of the Galaxy. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, & Jun-ichi Nakashima.* 130, 351 (2000)

**STARS: OSCILLATIONS**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

**STARS: PRE-MAIN-SEQUENCE**

Embedded Stellar Clusters in the W3/W4/W5 Molecular Cloud Complex. *John M. Carpenter, Mark H. Heyer, & Ronald L. Snell.* 130, 381 (2000)

Mid-Infrared Imaging of Star-forming Regions Containing Methanol Masers. *James M. De Buizer, Robert K. Pina, & Charles M. Telesco.* 130, 437 (2000)

**STARS: ROTATION**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

**STARS: SPOTS**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

**STARS: VARIABLES: OTHER**

Photometric Variability in a Sample of 187 G and K Giants. *Gregory W. Henry, Francis C. Fekel, Stephen M. Henry, & Douglas S. Hall.* 130, 201 (2000)

**SUN: CORONA**

Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy.* 130, 485 (2000)

**SUN: RADIO RADIATION**

Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy.* 130, 485 (2000)

**SUN: X-RAYS, GAMMA RAYS**

Soft X-Ray and Gyroresonance Emission above Sunspots. *A. Nindos, M. R. Kundu, S. M. White, K. Shibasaki, & N. Gopalswamy.* 130, 485 (2000)

**SURVEYS**

Discovery of Damped Ly $\alpha$  Systems at Redshifts Less than 1.65 and Results on Their Incidence and Cosmological Mass Density. *Sandhya M. Rao & David A. Turnshek.* 130, 1 (2000)

The Arecibo Dual-Beam Survey: Arecibo and VLA Observations. *Jessica L. Rosenberg & Stephen E. Schneider.* 130, 177 (2000)

Loose Groups of Galaxies in the Las Campanas Redshift Survey. *Douglas L. Tucker, Augustus Oemler, Jr., Yasuhiro Hashimoto, Stephen A. Shectman, Robert P. Kirshner, Huan Lin, Stephen D. Landy, Paul L. Schechter, & Sahar S. Allam.* 130, 237 (2000)

**TURBULENCE**

Two-dimensional Models of Hydrodynamical Accretion Flows into Black Holes. *Igor V. Igumenshchev & Marek A. Abramowicz.* 130, 463 (2000)

**ULTRAVIOLET: GALAXIES**

The Local Ly $\alpha$  Forest. I. Observations with the GHRS/G160M on the Hubble Space Telescope. *Steven V. Penton, John T. Stocke, & J. Michael Shull.* 130, 121 (2000)

**ULTRAVIOLET: ISM**

Atomic Data for Resonance Absorption Lines. II. Wavelengths Longward of the Lyman Limit for Heavy Elements. *Donald C. Morton.* 130, 403 (2000)

